

Table 9a: "Before" Travel Time Studies-Nebraska Highway 2 (Old Cheney Road-Van Dorn Street)

"BEFORE"	AM Peak 7:00 AM – 8:30 AM		Midday 11:00 AM – 1:00 PM		PM Peak 4:00 PM – 6:00 PM		Off-Peak 10:30 PM – 12:00 AM	
Date of Study Day 1: Day 2:	Mon., 1/24/00 Tue., 1/25/00		Mon., 1/24/00 Tue., 1/25/00		Mon., 1/24/00 Tue., 1/25/00		Mon., 2/21/00 Tue., 2/22/00	
Travel Time Statistic	EB	WB¹	EB ²	WB ²	EB¹	WB	EB ²	WB ²
Average Travel Time (sec)	501.0	436.2	419.5	429.8	469.1	518.1	429.6	415.7
Standard Deviation (sec)	91.5	49.1	24.7	30.6	48.0	16.2	39.5	20.5
Average Number of Stops	3.3	1.5	1.3	1.6	2.5	3.8	2.6	2.0
Average Speed (mph)	32.1	36.7	38.3	37.2	34.3	30.8	37.5	38.5
Standard Deviation (mph)	6.7	4.0	2.4	2.8	3.3	1.0	3.6	2.0
95% Confidence Interval (mph)	5.6	3.3	2.0	2.0	2.5	0.8	2.6	1.4
Average Speeds Within This Range (mph) ³ Lower Limit: Upper Limit:	26.5 37.7	33.4 40.0	36.3 40.3	35.2 39.2	31.8 36.8	30.0 31.6	34.9 40.1	37.1 39.9
Time Duration Below: 0 mph 7 mph 28 mph	73.3 91.1 152.1	29.4 38.1 78.0	17.6 28.0 64.8	14.6 27.5 79.5	43.8 58.8 107.5	89.5 109.5 173.8	28.6 40.3 77.4	19.3 30.3 66.9
Average Delay (sec)	143.1	80.7	62.3	76.4	111.6	163.0	72.3	61.3
Number of Runs	8	8	8	10	9	9	10	10
Length (feet)	23,620	23,460	23,573	23,457	23,593	23,434	23,654	23,492

¹Bolded direction indicates the direction of traffic which is favored by signal timings.

²Neither direction is significantly favored by existing signal timings.

³Limits of the range of average speed calculated based on the 95% confidence interval.

Notes: No “after” studies were performed for the off-peak time period.

Posted Speed Limit: Van Dorn Street – Arapahoe Street = 40 mph

Arapahoe Street – Old Cheney Road = 45 mph

Ideal Travel Time = 356.0 seconds (5 minutes 56.0 seconds)